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## **CLAIMS**

What is claimed is:

1. A heat sink comprising:

one or more heat pipes connected to a base member;

a plurality of thermal plates connected to said one or more heat pipes at predefined intervals, wherein said one or more heat pipes intersects said plurality of thermal plates; and an opening fashioned in each one of said plurality of thermal plates.

2. The heat sink of claim 1 further comprising:

a fan mounted in relation to said heat sink wherein said fan manipulates airflow down through each of said openings.

- 3. The heat sink of claim 1 wherein each of said openings are created having a decreasing size beginning with one of said plurality of thermal plates furthest from said base member
- 4. The heat sink of claim 1 wherein said one or more heat sinks and said plurality of thermal plates are constructed from a material having high thermal conductivity.
  - 5. A method of cooling an electronic assembly comprising:

conducting heat from said electronic assembly into a plurality of heat pipes extending from a conductive plate connected to said electronic assembly;

conducting heat from said plurality of heat pipes to a set of thermal fins connected at predetermined intervals along said plurality of heat pipes; and

exchanging heat from said plurality of heat pipes and said set of thermal fins to air flowing in:

- a direction across said set of thermal fins; and
- a direction through an aperture in each one of said set of thermal fins.
- 6. The method of claim 5 wherein said aperture for said each one is fashioned having a decreasing size.

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7. The method of claim 5 further comprising: pushing air in a direction orthogonal to said set of thermal fins.

- 8. The method of claim 5 further comprising: pushing air in a direction parallel to said set of thermal fins.
- 9. A system for dissipating heat generated in an electronic assembly comprising: means for moving heat from said electronic assembly to a plurality of conductive columns extending perpendicularly from a base plate in contact with said electronic assembly;

means for moving heat from said plurality of conductive columns to one or more thermal plates connected at predetermined distances along said plurality of conductive columns, wherein each one of said one or more thermal plates has an orifice there through; and

means for transferring heat from said plurality of conductive columns and said one or more thermal plates to air flowing in:

- a direction perpendicular to said base plate; and
- a direction parallel to said one or more thermal plates.
- 10. The system of claim 9 wherein said orifice for said each one is fashioned having a decreasing area.
  - 11. The system of claim 9 further comprising:

means for fanning air in a direction perpendicular to said base plate, wherein said air flows through said orifice.

12. The system of claim 9 further comprising: means for fanning air in a direction parallel to said one or more thermal plates.